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FEB 02 2005

<b>Title of Invention</b>	SIMULTANEOUS MULTI-BEAM PLANAR ARRAY IR (PAIR) SPECTROSCOPY																																		
<b>Submission Type:</b>	Information Disclosure Statement																																		
<b>Application Number:</b>	10/708927	*10/708927*																																	
<b>EFS ID:</b>	74308																																		
<b>Server Response:</b>	<table border="1"> <tr> <th>Confirmation Code</th> <th>Message</th> </tr> <tr> <td>ISVR1</td> <td>Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application</td> </tr> <tr> <td>ICON1</td> <td>2926</td> </tr> <tr> <td>USPTOEFSNotice</td> <td>The documents provided in this submission were accepted by the USPTO. However, the fees associated with new utility and provisional Electronic Filing System (EFS) submission were not accepted by our automated systems because the USPTO software has not yet been updated for the fee structure and amounts required by the Consolidated Appropriations Act, 2005, Section 801, of Division B. In due course a corrected fee may be assessed due to changes associated with the Appropriations Act. We will charge the amount indicated in your submission. If at least the basic filing fee accompanied a new utility or provisional EFS submission, then no surcharge based on fee deficiency will be applied when any fee deficiency is paid. For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll -Free Number: 1866 217-9197 Website: <a href="http://www.uspto.gov/ebc/">www.uspto.gov/ebc/</a></td> </tr> </table>		Confirmation Code	Message	ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application	ICON1	2926	USPTOEFSNotice	The documents provided in this submission were accepted by the USPTO. However, the fees associated with new utility and provisional Electronic Filing System (EFS) submission were not accepted by our automated systems because the USPTO software has not yet been updated for the fee structure and amounts required by the Consolidated Appropriations Act, 2005, Section 801, of Division B. In due course a corrected fee may be assessed due to changes associated with the Appropriations Act. We will charge the amount indicated in your submission. If at least the basic filing fee accompanied a new utility or provisional EFS submission, then no surcharge based on fee deficiency will be applied when any fee deficiency is paid. For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll -Free Number: 1866 217-9197 Website: <a href="http://www.uspto.gov/ebc/">www.uspto.gov/ebc/</a>																									
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<b>First Named Applicant:</b>	Douglas Elmore																																		
<b>Attorney Docket Number:</b>	11657-00004-US																																		
<b>Timestamp:</b>	2004-12-15 19:02:04 EDT																																		
<b>From:</b>	us																																		
<b>File Listing:</b>	<table border="1"> <thead> <tr> <th>Doc. Name</th> <th>File Name</th> <th>Size (Bytes)</th> </tr> </thead> <tbody> <tr> <td>us-lds</td> <td>1165700004US-uidet.xml</td> <td>1036</td> </tr> <tr> <td>us-lds</td> <td>us-lds.dtd</td> <td>7763</td> </tr> <tr> <td>us-lds</td> <td>us-lds.xml</td> <td>12026</td> </tr> <tr> <td>us-fee-sheet</td> <td>1165700004US-usfees.xml</td> <td>1366</td> </tr> <tr> <td>us-fee-sheet</td> <td>us-fee-sheet.dtd</td> <td>10032</td> </tr> <tr> <td>us-fee-sheet</td> <td>us-fee-sheet.xml</td> <td>24912</td> </tr> <tr> <td>package-data</td> <td>1165700004US-pkds.xml</td> <td>2460</td> </tr> <tr> <td>package-data</td> <td>package-data.dtd</td> <td>27025</td> </tr> <tr> <td>package-data</td> <td>us-package-data.xml</td> <td>19263</td> </tr> <tr> <td colspan="2">Total files size</td> <td>105304</td> </tr> </tbody> </table>		Doc. Name	File Name	Size (Bytes)	us-lds	1165700004US-uidet.xml	1036	us-lds	us-lds.dtd	7763	us-lds	us-lds.xml	12026	us-fee-sheet	1165700004US-usfees.xml	1366	us-fee-sheet	us-fee-sheet.dtd	10032	us-fee-sheet	us-fee-sheet.xml	24912	package-data	1165700004US-pkds.xml	2460	package-data	package-data.dtd	27025	package-data	us-package-data.xml	19263	Total files size		105304
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<b>Message Digest:</b>	47bdbc2709a1eab541ca6547cd39b8f47f8aa48																																		
<b>Digital Certificate Holder Name:</b>	cn=Larry Joe Hume,ou=Registered Attorneys,ou=Patent and Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US																																		

## TRANSMITTAL

Electronic Version  
Stylesheet Version v1.1.0

Title of Invention	SIMULTANEOUS MULTI-BEAM PLANAR ARRAY IR (PAIR) SPECTROSCOPY
Application Number: 10/708927 *10/708927*	
Date: 2004-04-01	
First Named Applicant: Douglas L. Elmore	
Confirmation Number: 2926	
Attorney Docket Number: 11057-00004-US	
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>	
Submitted by:	Elec. Sign.
Larry J. Hume Registered Number: 44,163	/ljh/

**Documents being submitted**

us-ids

us-fee-sheet

**Files**

1165700004US-usidst.xml

us-ids.dtd

us-ids.xsl

1165700004US-usfees.xml

us-fee-sheet.dtd

us-fee-sheet.xsl

**Comments**

IPDAS Version 3.56.3.0, Validation Version 1.2.0.1, Submission Version 1.3.4.6

## FEE TRANSMITTAL

Electronic Version v09  
Stylesheet Version v08.0

<b>Title of Invention</b>	SIMULTANEOUS MULTI-BEAM PLANAR ARRAY IR (PAIR) SPECTROSCOPY								
Application Number: 10/708927 *10/708927*									
Date: 2004-04-01									
First Named Applicant: Douglas L. Elmore									
Attorney Docket Number: 11857-00004-US									
Art Unit: 2878									
Examiner: C. Hannaher									
<b>TOTAL FEE AUTHORIZED \$180</b>									
Patent fees are subject to annual revisions on or about October 1st of each year.									
<b>BASIC FILING FEE</b>									
<table border="1"><thead><tr><th>Fee Description</th><th>Fee Code</th><th>Amount \$</th><th>Fee Paid \$</th></tr></thead><tbody><tr><td>Submission Of Information Disclosure Stmt Fee</td><td>1806</td><td>180</td><td>180</td></tr></tbody></table>		Fee Description	Fee Code	Amount \$	Fee Paid \$	Submission Of Information Disclosure Stmt Fee	1806	180	180
Fee Description	Fee Code	Amount \$	Fee Paid \$						
Submission Of Information Disclosure Stmt Fee	1806	180	180						
<b>AUTHORIZED BILLING INFORMATION</b>									
The commissioner is hereby authorized to charge indicated fees and credit any overpayments to:									
Deposit account number: 220185									
Access Code: ****									
Deposit name: Connolly Bove Lodge & Hutz LLP									
Deposit authorized name: Larry J. Hume									
Signature: /ljh/									
Date (YYYYMMDD): 2004-12-15									

**ELECTRONIC INFORMATION DISCLOSURE STATEMENT**

Electronic Version v18  
Stylesheet Version v18.0

<b>Title of Invention</b>	SIMULTANEOUS MULTI-BEAM PLANAR ARRAY IR (PAIR) SPECTROSCOPY						
<p>Application Number: 10/708927 *10/708927*</p> <p>Confirmation Number: 2926</p> <p>First Named Applicant: Douglas Elmore</p> <p>Attorney Docket Number: 11657-00004-US</p> <p>Art Unit: 2878</p> <p>Examiner: C. Hannaher</p> <p>Search string: ( 5828450 ).pn.</p>							
<b>US Patent Documents</b>							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
<b>Int</b>	<b>Cite.No.</b>	<b>Patent No.</b>	<b>Date</b>	<b>Patentee</b>	<b>Kind</b>	<b>Class</b>	<b>Subclass</b>
	AA	5828450	1998-10-27	Dou et al.			
<b>Signature</b>							
<b>Examiner Name</b>				<b>Date</b>			

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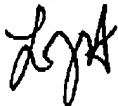
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DEC-15-2004 19:22 CONNOLLY BOVE LODGE SHUTZ 332 293 6229 P. 01/31	
<b>FAX TRANSMISSION</b>	
DATE: December 15, 2004	
PTO IDENTIFIER: Application Number 10/708,927-Conf. #2926 Patent Number	
INVENTOR: Douglas L. Elmets et al.	
MESSAGE TO: U.S. Patent and Trademark Office	
FAX NUMBER: (703) 872-9306	
FROM: CONNOLLY BOVE LODGE & HUTZ LLP Larry J. Hume <i>LJH</i>	
PHONE: (202) 331-7111	
Attorney Ref. #: 11557-00004-US	
PAGES (including Cover Sheet): 31	
CONTENTS: IDS (Continued) by Applicant (3 References) (1 page) Due (1) fee-US patent publication (16 pages) Information Disclosure Statement (2 pages) Certificate of Transmission (1 page)  NO FEE IS DUE.	
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PAGE 101* RCVD AT 12/15/2004 7:20:42 PM [Eastern Standard Time] * SVR:USPTO-EFAX-011 * DNIS:8729306 * CSID:202 293 6229 * DURATION (mm-ss):11-27	

**FAX TRANSMISSION****DATE:** December 15, 2004**PTO IDENTIFIER:** Application Number 10/708,927-Conf. #2926  
Patent Number**Inventor:** Douglas L. Elmore et al.**MESSAGE TO:** US Patent and Trademark Office**FAX NUMBER:** (703) 872-9306**FROM:** CONNOLLY BOVE LODGE & HUTZ LLPLarry J. Hume **PHONE:** (202) 331-7111**Attorney Dkt. #:** 11657-00004-US**PAGES (Including Cover Sheet):** 31**CONTENTS:** IDS (Citation) by Applicant (3 References) (1 page)  
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1990 M Street, N.W., Suite 800, Washington, DC 20036-3425  
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PTO/SB/97 (09-04)

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Application No. (if known): 10/708,927

Attorney Docket No.: 11657-00004-US

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Docket No.: 11657-00004-US  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Douglas L. Elmore et al.

Confirmation No.: 2926

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**FEB 02 2005**

Application No.: 10/708,927

Filed: April 1, 2004

Art Unit: 2878

For: SIMULTANEOUS MULTI-BEAM PLANAR  
ARRAY IR (PAIR) SPECTROSCOPY

Examiner: C. Hannaher

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

371970

Application No.: 10/708,927

Docket No.: 11657-00004-US

A copy of only the non-US Patent reference listed below is attached:

For. Doc No.	Ctry	Patentee/Applicant	Publication Date
0 756 169	EP	Kyoto Daiichi Kagaku K.K.	January 29, 1997

A concise explanation of relevance of the items listed on form PTO/SB/08 is that each listed item was cited by a foreign patent office in a related application.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 11657-00004-US.

Dated: December 15, 2004

Respectfully submitted,

By

Larry J. Hume

Registration No.: 44,163

CONNOLLY BOVE LODGE &amp; HUTZ LLP

1990 M Street, N.W., Suite 800

Washington, DC 20036-3425

(202) 331-7111

(202) 293-6229 (Fax)

Attorney for Applicant

PTO/SB/08a/b (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substituted for form 1448A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete If Known</b>		
			Application Number	10/708,927-Conf. #2926	
			Filing Date	April 1, 2004	
			First Named Inventor	Douglas L. Elmore	
			Art Unit	2878	
			Examiner Name	C. Hannaher	
Sheet	1	of	1	Attorney Docket Number	11657-00004-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-6,204,919-B1	03-20-2001	YOAV BARSHAD	
	AB	US-4,691,110-A	09-01-1987	WOLFGANG NEBE	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	BA	EP-0 756 169-A2	01-29-1997	Kyoto Daiichi Kagaku KK	

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
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